

PATENT

Atty. Dkt. No. 2001-0110

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-5 (Canceled).

6. (Currently Amended) ~~The method as recited in claim 1~~ In a data network, a method of determining a path of data conveyed on links between nodes of the network, comprising:

assigning to a network link a service weight and a restoration weight;

determining a service path of at least one link using the service weight;

determining a restoration path of at least one link using the restoration weight;

and

transmitting the data in the network on at least one of the service and restoration paths, wherein in said determining step of said service path, a service weight is assigned to each link to prioritize finding a shortest possible service path, and wherein in said determining step of said restoration path, a restoration weight is assigned to each link to find a restoration path with the maximum available capacity.

Claims 7-9 (Canceled).

10. (Currently Amended) ~~The method as recited in claim 1~~ A method of determining a path of a connection between at least two nodes in a SONET/SDH network, comprising:

assigning to a network link a service weight and a restoration weight;

determining a service path of at least one link using the service weight;

determining a restoration path of at least one link using the restoration weight;

and

transmitting information in the network on at least one of the service and restoration paths, wherein in said determining step of said service path, a service weight is assigned to each link to prioritize finding a shortest possible service path, and

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wherein in said determining step of said restoration path, a restoration weight is assigned to each link to find a restoration path with the maximum available capacity.